

Title	Install, secure, and maintain foul water systems in accordance with NZ Building Code G13 Acceptable Solution 3		
Level	4	Credits	6

Purpose	<p>This unit standard is for people who work in the plumbing industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – install and secure sanitary plumbing and drainage systems in buildings in accordance with Building Code Clause G13 – Acceptable Solution 3 (AS/NZS 3500.2) and job specifications; and – maintain sanitary plumbing and drainage systems in buildings.
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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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Available grade	Achieved
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Guidance Information

- References**

Building Act 2004;
Health Act 1956;
Health and Safety at Work Act 2015;
Plumbers, Gasfitters, and Drainlayers Act 2006;
Plumbers, Gasfitters, and Drainlayers Regulations 2010;
Resource Management Act 1991;
The following standards, which are available at <https://www.standards.govt.nz>:
AS/NZS 1546.1:2008 *On-site domestic wastewater treatment units – Septic tanks*,
AS/NZS 1547:2012 *On-site domestic wastewater management*, and
AS/NZS 3500.2:2015 *Plumbing and drainage – Sanitary plumbing and drainage*;
The following, which is available at <http://www.worksafe.govt.nz>:
Excavation Safety – Good practice Guidelines,
Underground services – Guide for safety with underground services;
The following clauses, current versions, and any related compliance documents,
which are available at <https://www.building.govt.nz>:
New Zealand Building Code Clause E1 Surface Water,
New Zealand Building Code Clause G12 Water Supplies,
New Zealand Building Code Clause G13 Foul Water;
and all subsequent amendments and replacements.
- This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 2010.

- 3 Range
Pipework – must include, unplasticised polyvinylchloride (uPVC), associated fittings; may include new or emerging products (polyethylene);
Traps – grease, trade waste fixture traps, floor waste gully traps.
- 4 Definitions
Foul water systems – also referred to as sanitary plumbing and drainage systems, are systems for conveying foul water to the outside of the building without leakage, blockage, or allowing foul air to enter the building.
Job specifications – instructions (oral, written, graphic) and may include any of the following: manufacturer instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.
Maintain may refer to all or any of – repair, upgrade, alter, remove, including preventative measures.
- 5 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
- 6 All practical activities are to be carried out in a way that avoids harm to people and damage to property, environment, other services, materials, tools, and equipment.

Outcomes and performance criteria

Outcome 1

Install and secure sanitary plumbing and drainage systems in buildings in accordance with Building Code Clause G13 – Acceptable Solution 3 (AS/NZS 3500.2) and job specifications.

Range single-level, multi-level up to three storeys.

Performance criteria

- 1.1 Joint pipes using methods and fittings appropriate to the material being joined.
- 1.2 Identify system connection and termination points.
- 1.3 Connect pipework to connection and termination points.
- 1.4 Connect sanitary plumbing and drainage pipework to sanitary fixtures.
- 1.5 Connect venting pipework to sanitary plumbing and drainage system.
- 1.6 Carry out soundness tests.
- 1.7 Protect system components against physical damage.
- 1.8 Label pipework by system and/or colour and direction of flow, as appropriate.

1.9 Secure pipework.

Outcome 2

Maintain sanitary plumbing and drainage systems in buildings.

Performance criteria

- 2.1 Assess installed sanitary plumbing and drainage systems to identify faults in accordance with maintenance requirements and relevant standards and codes.
- 2.2 Rectify faults in accordance with maintenance requirements, job specifications, and relevant standards and codes.
- 2.3 Perform appropriate post maintenance commissioning processes.

Replacement information	This unit standard, unit standard 30542, and unit standard 30543 replaced unit standard 2144.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	31 December 2028
Review	2	30 May 2024	31 December 2028

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.